

20000620.qrp v01_n858.qrl.20000620

Date: Tue, 20 Jun 2000 19:03:10 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1858

QRP-L Digest 1858

Topics covered in this issue include:

- 1) [72994] Phone SS
by wd3p@juno.com
- 2) [72995] QRP Commandos Hit the Bush!
by Richard Arland <k7sz@epix.net>
- 3) [72996] off topic virus alert
by "Michael L. Miller, MD" <millerm@merle.acns.nwu.edu>
- 4) [72997] mW Triple Crown 3rd leg
by Jim Hale <kj5tf@yahoo.com>
- 5) [72998] Michigan QRP NET Reminder
by "Edward A Kwik jr" <eakwikjr@hti.com>
- 6) [72999] CW SS win ... was Re: Phone SS
by Michael Neverdosky <mneverdosky@earthlink.net>
- 7) [73000] FS - MFJ Keyer - 401C
by Radman <radman@best.com>
- 8) [73001] wtb tentec 1320
by paul taylor <ptay1@miro.bestweb.net>
- 9) [73002] Milliwatt triple Crown
by Pete Burbank <plburbank@kih.net>
- 10) [73003] miniR2 Great Receiver!!
by Ed Kessler <edkess@epix.net>
- 11) [73004] Battery Care and Feeding
by "James R. Duffey" <jamesd1@flash.net>
- 12) [73005] KIT: Extending the NORCAL BLT Tuner Tuning Range without MODing the Tuner. How you say?
by Sam Billingsley <SBillingsley@usaninc.com>
- 13) [73006] Re: EMTECH-FORUM
by "Mike" <steam@corecomm.net>
- 14) [73007] Non regulated solar charging during operation
by Jeff <fantbb@yahoo.com>
- 15) [73008] ByteMark
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 16) [73009] QRP FD in Central TX
by Stuart Rohre <rohre@arlut.utexas.edu>
- 17) [73010] re: QRP on the Alinco DX-70t
by "Kelly Ellison" <kelman@dialnet.net>
- 18) [73011] Re: Non regulated solar charging during operation
by Randy & Cara Randall <crrandal@seidata.com>

- 19) [73012] SMK-1 in a wood case
by n5ib@juno.com
- 20) [73013] car voltage reulator for solar charging?
by Drbob92031@aol.com
- 21) [73014] CAROLINA BEAM
by ARDUJENSKI@aol.com
- 22) [73015] RE: Confessions of a Battery Assassin
by "Ron McConnell" <rcmcc@lucent.com>
- 23) [73016] QRT for vacation...
by Patrick Armstrong <aa7fg@gte.net>
- 24) [73017] Applachian Trail
by Mike <campers@pocketmail.com>
- 25) [73018] Running an UN-GROUND station?
by ARDUJENSKI@aol.com
- 26) [73019] RS-13 in Field Day
by Bob Patten <n4bp@bc.seflin.org>
- 27) [73020] Re: car voltage reulator for solar charging?
by "Mike Yetsko" <myetsko@insydesw.com>
- 28) [73021] Re: QRT for some time
by Wn4i@aol.com
- 29) [73022] QRP Expedition - DL/S50ZRS/P
by Alen Mitrovic <alen.mitrovic@hermes.si>
- 30) [73023] Taming the YAESU VR-500 Communications Receiver
by Sam Billingsley <SBillingsley@usaninc.com>
- 31) [73024] Re: car voltage reulator for solar charging?
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 32) [73025] W0CQC TWO sites
by "Alan Dawkins" <alk0frp@home.com>
- 33) [73026] More old radio stuff: another book
by Nils R Young <nilsbull@juno.com>
- 34) [73027] ZM-2 ATU Antenna Tuning Unit
by Charles K Brown <n4so@juno.com>
- 35) [73028] Re: Taming the YAESU VR-500 Communications Receiver
by Phil Wheeler <w7ox@earthlink.net>
- 36) [73029] vertical radials
by David Heintzleman <pstrdave@kdsi.net>
- 37) [73030] Re: Taming the YAESU VR-500 Communications Receiver
by Bruce Muscolino <w6toy@erols.com>
- 38) [73031] YAESU VR-500 Communications Receiver
by "Ed Manuel (N5EM)" <n5em@flash.net>
- 39) [73032] Re: Non regulated solar charging during operation
by Bill Coleman AA4LR <aa4lr@radio.org>
- 40) [73033] FS - MFJ Keyer - 401C -- SOLD!!
by Radman <radman@best.com>
- 41) [73034] Re: Non regulated solar charging during operation
by "Mike Yetsko" <myetsko@insydesw.com>
- 42) [73035] Unitrode UC-3906 Charger
by Charles K Brown <n4so@juno.com>

43) [73036] Has Anyone Seen/Tried an Elecraft K1 ???
by "James P. Rybak" <jrybak@mesastate.edu>

44) [73037] Re: WTB : Tubing to build yagis.....
by Monte Stark <ku7y@dri.edu>

45) [73038] DSW-20 Bay Area Troubleshooter needed
by ABCQRP <w6abc@yahoo.com>

46) [73039] RE: Taming the YAESU VR-500 Communications Receiver
by Sam Billingsley <SBillingsley@usaninc.com>

47) [73040] RS 12/13
by Fred Lesnick <flesnick@tbaytel.net>

48) [73041] Re: RS 12/13
by Bob Patten <n4bp@bc.seflin.org>

49) [73042] uMountaineer Xtal
by AA3BP@aol.com

50) [73043] Re: Has Anyone Seen/Tried an Elecraft K1 ???
by Phil Wheeler <w7ox@earthlink.net>

51) [73044] Re: RS 12/13
by David Hinerman <dlh1009@ritvax.isc.rit.edu>

52) [73045] Re: RS 12/13
by Bob Patten <n4bp@bc.seflin.org>

53) [73046] Re: RS 12/13
by David Hinerman <dlh1009@ritvax.isc.rit.edu>

54) [73047] HB: **uMountaineer Xtal**
by AA3BP@aol.com

55) [73048] Re: RS 12/13
by Bob Patten <n4bp@bc.seflin.org>

56) [73049] RE: HB: **uMountaineer Xtal**
by Sam Billingsley <SBillingsley@usaninc.com>

57) [73050] RE: RS 12/13
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>

58) [73051] FS:NorCal 20 with RTTY Interface
by Bill Jones <kd7s@psnw.com>

59) [73052] FS - Ramsey CW-700 memory keyer
by Radman <radman@best.com>

60) [73053] Re: Non regulated solar charging during operation
by "Mel Evans" <mel@euramcom.freemove.co.uk>

61) [73054] Solar Panels
by "Mel Evans" <mel@euramcom.freemove.co.uk>

62) [73055] FS: MPX-40 QRP DSB/CW Rig
by "John L. Sielke" <n4js@pobox.com>

63) [73056] Re: HB: **uMountaineer Xtal**
by Curt Milton <wb8yyy@yahoo.com>

64) [73057] Re: RS 12/13 updating keps
by Curt Milton <wb8yyy@yahoo.com>

65) [73058] Non regulated solar charging during operation MANY THANKS FOR THE
HELP!
by Jeff <fantbb@yahoo.com>

Date: Mon, 19 Jun 2000 21:02:46 +0100
From: wd3p@juno.com
To: qrp-l@Lehigh.EDU
Subject: [72994] Phone SS
Message-ID: <20000619.225641.-355481.3.wd3p@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi Gang

I just got the July QST and happened to look at the phone SS scores. Now I never do phone, well almost never. This time I must have jumped into the contest with both feet. And even more surprising I sent the log in. Then come to find out for all of an hour of work and 14 QSOs I win the MDC section QRP. I wonder if they will send me a nice certificate for that. It sure helped that I was the only one to send in the log. I could have won with one QSO.

73 de Larry.....WD3P

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 19 Jun 2000 23:00:33 -0400
From: Richard Arland <k7sz@epix.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [72995] QRP Commandos Hit the Bush!
Message-ID: <394EDE51.28B1EF4D@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The Wyoming Valley QRP Commandos will be on the air during ARRL FD using the callsign, KB3FBJ. (I know, I know...it sucks on CW and ain't much better on fone!). We have a vanity club callsing (N3WVC) which hasn't been processed by the FCC as yet. I sure hope they get on the ball before Friday!!!!

Main players will be, Fran, KA3WTF, Roger, N3PBL, Dave, N3PBV, Jay, N3WWL, Joe, WA3WMI and me, K7SZ. We will be setting up in the campus quadrangle near the Stark Learning center on the Wilkes University

campus.

Antennas will consist of a full size Radio Works Carolina Windom 160, a R-W 40 meter SuperLoop, a dual set of dipoles covering 80, 40, 20, 15 and 10 meters from Hints and Kinks (Sept 1998, QST) and a 10 meter vertical.

Our power class will be 3A-Battery. There will be at least one K2 on the air along with several other kit rigs.

Hope to work many of you on the air.

73 Rich K7SZ

Date: Mon, 19 Jun 2000 18:12:19 -0500
From: "Michael L. Miller, MD" <millerm@merle.acns.nwu.edu>
To: qrp-l@Lehigh.EDU
Cc: millermd@nwu.edu
Subject: [72996] off topic virus alert
Message-ID: <4.2.2.20000619181048.00a37d90@merle.acns.nwu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am going to take the opportunity to go off topic, to alert the group not to open any attachment entitled "Life Stages". I was alerted by phone mail from my IT department, minutes before receiving 2 messages, one entitled "Life Stages" the other "Funny." These both contained worm programs "Life Stages.Txt1.SHS". Get rid of them.

Back to business - qrp!

72 de KG9ML, Mike

Michael L. Miller, MD
Northwestern University, Evanston, IL. USA
millermd@nwu.edu

Date: Mon, 19 Jun 2000 16:15:13 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [72997] mW Triple Crown 3rd leg

Message-ID: <20000619231513.7174.qmail@web704.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The Ia QRP club has come recently announced the dates,
& rules for the 3rd leg of the milliwatt triple crown.

I'm not sure if they are already available on another
website, but just now I went ahead and put them on my
little QRP website. The address is below.

I'm looking forward to it !

Jim KJ5TF
"All milliwatts, All the time"

=====
<http://www.madisoncounty.net/~kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
Join/renew membership QRP Amateur Radio Club International
<http://www.qrparci.org/arcijoin.html>
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W
Private email kj5tf@madisoncounty.net

Do You Yahoo!?
Send instant messages with Yahoo! Messenger.
<http://im.yahoo.com/>

Date: Mon, 19 Jun 2000 18:40:55 -0400
From: "Edward A Kwik jr" <eakwikjr@hti.com>
To: QRP-L Discussion <grp-l@Lehigh.EDU>
Subject: [72998] Michigan QRP NET Reminder
Message-ID: <394EA177.7D1DCC21@hti.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just a reminder that the MI QRP net meets every Tuesday night at 9:00 PM
(0100 UTC Wednesdays) on 80 Meters at 3.535 Mhz. Net control is Ed
AB8DF. There were no check ins last week so I thought I would send a
reminder.

72's Ed

Date: Mon, 19 Jun 2000 23:24:45 +0000
From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72999] CW SS win ... was Re: Phone SS
Message-ID: <394E656D.463B8896@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I won the NFL section CW SS in QRP with ONE contact.
Yep, one contact was the high score in NFL.

I am sure glad I sent my log in.

I didn't even expect it and was suprised when a friend told me he
saw my call in the CW SS results in QST.

I did work hard for that contact. I found lots of equipment problems
and lots of ways to improve my skills. Next time I will get a higher
score. :-))

michael N6CHV

wd3p@juno.com wrote:

>
> Hi Gang
>
> I just got the July QST and happened to look at the phone SS scores. Now
> I never do phone, well almost never. This time I must have jumped into
> the contest with both feet. And even more surprising I sent the log in.
> Then come to find out for all of an hour of work and 14 QSOs I win the
> MDC section QRP. I wonder if they will send me a nice certificate for
> that. It sure helped that I was the only one to send in the log. I could
> have won with one QSO.

Date: Mon, 19 Jun 2000 16:44:06 -0700
From: Radman <radman@best.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [73000] FS - MFJ Keyer - 401C
Message-ID: <01BFDA0D.BCB87B20@radman.vip.best.com>

Gang,

I have a tested/never-used MFJ-401C electronic keyer - 10 on a 10-scale.

Supports iambic operation with paddles, solid state keying, grid block keying and cathode keying. Dot-Dash insertion. Semi-automatic "bug" operation provides automatic dots and manual dashes. A tune switch lets you key your transmitter for tuning. Internal speaker. Same as MFJ-407C except weight and tone controls are adjusted internally Uses 9V battery (included) or 9V wall adapter (not included.) Measures 4 x 2 x 3 1/2 inches. Original factory box, instruction manual & blister packaging.

HRO price: \$49.95 plus \$4.50 UPS. I'll ship to your door for \$42.00 total.

Sound fair?

73 - Conrad Weiss - NN6CW

Date: Mon, 19 Jun 2000 19:59:15 -0700
From: paul taylor <ptay1@miro.bestweb.net>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [73001] wtb tentec 1320
Message-ID: <3.0.32.20000619195912.0069aa78@pop.bestweb.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

wanted tentec 1320 20m qrp xcver in good shape. pse respond off list.
tnx paul wb2gin

Date: Mon, 19 Jun 2000 20:33:55 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [73002] Milliwatt triple Crown
Message-ID: <3.0.32.20000619203351.00748c60@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jim,
Looks like great fun!!! I operated in the last one and worked a few people. I noticed that some didn't use the NEW REVOLUTIONARY power reporting system and some did and some used both old and new. IMHO the old system was entirely adequate but guess I must a bit set in my ways as I still prefer megacycles to mhz. I was wondering what others thought.
73 Pete NV4V

Date: Mon, 19 Jun 2000 20:28:59 -0400
From: Ed Kessler <edkess@epix.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [73003] miniR2 Great Receiver!!
Message-ID: <394EBACB.DE67F730@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Working on a transceiver for 20m using the miniR2 as the receiver.
I just finished the receiver portion today and, wow, does the miniR2
work well! Signals just seem to pop in from nowhere, and I can't
detect any noise other than signals or band noise. The receiver is
crisp, clear and the fidelity is that great DC quality.

Highly recommended.

73s
Ed AA3SJ

Date: Mon, 19 Jun 2000 18:42:41 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [73004] Battery Care and Feeding
Message-ID: <B5741A21.13D7%jamesd1@flash.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

All - I use a deep cycle battery and and Exide automatic deep cycle charger
to power my shack. Teh deep cycle charger chargesa t 10 amps and t hen
reverts to a trickle charge when the battery reaches full charge. In my
experience 3 to 4 years is about the normal life span for these batteries.
The manufactureres typically rate these batteries at several hundred charge/
discharge cycles, so I think that is about the right battery life span for
an active QRP station.

Overcharging is hazardous to these batteries and should be avoided. Complete
discharge should also be avoided, but usually is less of a problem if the
capacity of the battery far exceeds the usual use period. This is the case
for most QRP operations.

I typically plug in my charger and charge the battery while operate. I

unplug it when I am done. This leaves the battery close to full charge at the end of most of my operating sessions. Occasionally I forget and leave it on the charger between sessions. I try to avoid this, but occasionally forget. For someone that operates several times a week or more this procedure should keep the battery well charged without the need for a trickle charger. I always worry about some damage to the battery, primarily some fluid loss with a trickle charge.

The water level should be checked monthly and topped off with distilled water if it gets low. The sealed "maintenance free" batteries obviate this need, but I don't think they last for as many charge/discharge cycles. I don't always remember to check the water level so I have a sealed battery.

Normal car batteries can only stand a few full discharge cycles and should be avoided. But if you can get one cheap and don't fully discharge it, it will last for a quite a while. - Dr. Megacycle KK6MC/5

--

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Mon, 19 Jun 2000 20:53:15 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>, "klqrp_submit (E-mail)" <klqrp@waterw.com>, "_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>
Cc: clofgren@BENSON.MCKENNA.EDU
Subject: [73005] KIT: Extending the NORCAL BLT Tuner Tuning Range without Modifying the Tuner. How you say?
Message-ID: <66FCE0D1DF76D311913800805F6D0FA3D4A64A@mailserver1.usan.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

After getting Charlie's note below I got home today and added 6 ft of open line to the already existing 30 ft and Presto 10 mtrs tunes in with 1.5:1 SWR. The 15 mtr worked with just a foot or so over 30 ft. So everything is very sensitive to total line (horizontal element and open wire lead to tuner). So the bottom line is I didn't have to MOD the tuner itself just change the length of the feeder. I should I could have changed the element length and kept the feeder the original 30 ft and accomplished the same thing.

So I'm going to pre-make some short sections of open line feeder and put single MOLEX connectors on the ends so I can add them to the basic 30 ft on

down line if needed. Why 30 ft you say? When I have a 30 ft portable mast for field day and I think I can find many trees in the GA area that are 30+ ft high. I'm sure things would work even better if I could get higher. So I'll run coax from the rig to the base of the mast then put the tuner in place connecting the tuner and open wire feeder. I'm using Popsicle sticks for the open wire spreaders.

So thanks Charlie and all the others that responded to me and offered suggestions. The experimenting is half the fun but the proof of the pudding will be how it performs in the FD. I'll let you know.

Sam Billingsley AE4GX Atlanta, GA
personal web page at <http://ae4gx.home.mindspring.com/>
North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>

> -----Original Message-----

> From: Charlie Lofgren [SMTP:clofgren@BENSON.MCKENNA.EDU]

> Sent: Monday, June 19, 2000 10:23 AM

> To: Sam Billingsley

> Cc: CLOFGREN@BENSON.MCKENNA.EDU

> Subject: Re: KIT: Question about Tuning Range of Norcal BLT Tuner

>

> Hi, Sam--

>

> I designed the BLT for coverage of 40 through 20. As I mentioned in a
> previous note on qrp-l, to help insure coverage of 40, reduce the low
> impedance link from 6 to 4 turns, for those occasions when the feedline
> at the tuner presents a fairly low impedance load on 40.

>

> Doug found, as others have, that he could tune the NorCal Doublet on other
> bands. But this is a matter of chance--the right antenna feedpoint
> impedance, plus feedline Z_0 and length (and with the NorCal Doublet,
> probably also feedline loss), giving an impedance at the tuner that it
> will match on the other frequencies.

>

> Orientation of the toroid should make no difference. Tweaking the
> inductances by adjusting turn spacing might. But basically, what I shot
> for in designing it was 40-20 coverage.

>

> If you want reliable coverage of the other bands, you need a regular
> zmatch.

>

> 72,

>

> Charlie, w6jjz

> clofgren@mckenna.edu
>
> On Mon, 19 Jun 2000, Sam Billingsley wrote:
>
> > Just put together my BLT and started testing with a Norcal Doublet 44 ft
> top
> > with open feeder 30 ft to tuner. Inverted Vee config with angle below
> > horizontal about 30 degrees for each element. Tried feeder spacing from
> 4
> > inches down to 1.5 inches.
> >
> > Here's my problem: 40 and 20 no problem finding good match with MFJ259B
> SWR
> > analyzer. But couldn't initially find a match for 15 or 10 mtrs. Sweep
> the
> > freq. with the SWR analyser and can see good matches above both bands
> (ie
> > 23 mHz and 31 mHz). So neither I have too little inductance or too
> little
> > cap. I noticed by really squeezing the L1 turns together that I can get
> the
> > reasonable tuning spot for 15 and 10 mtr to move down (ie about 2:1
> SWR) .
> >
> > My question: Doug's original note indicated he had tried most all of the
> > types of twin lead including open wire. How critical is the open wire
> down
> > length relative to the limited tuning range of the LC setup? I think he
> was
> > using a 20 ft own lead. I have the coil oriented vertically in the
> enclosure
> > and the leads for both primary and secondaries are evenly spaced with
> regard
> > to side to side.
> >
> > I want to maintain the 30 ft open wire for the upcoming FD event (I can
> make
> > it longer) and I have the ability to change the doublet length from 44
> ft to
> > what ever. My goal was to setup the fixed doublet at 30 ft and be able
> to
> > work 40/20/15/10 just by retuning the BLT.
> >
> > Any suggestions before FD? I left the antenna up in the backyard and
> hoping
> > for some special enlightenment (ie simple fix).
> >
> > BTW I did tune to cap trimmers to minimum.

>

Date: Mon, 19 Jun 2000 19:56:38 -0500
From: "Mike" <steam@corecomm.net>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [73006] Re: EMTECH-FORUM
Message-ID: <001f01bfda52\$663e5e00\$ddcbd6d8@megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Thanks Alan.

Geez, I built the zm-2 and nw-40 and never noticed the=20
forum link on the page. Duhhh!!!=20

Lots of good info.
Great post by Scott about soldering.

Take it easy... Mike

<>< ><< ><< <>< ><< <>< ><< <>< <>< <>< ><
Mike Pender Chicago N9IV0
steam@corecomm.net <http://www.corecomm.net/~steam> =20
><< <>< <>< ><< <>< ><< ><< <>< ><< ><< <>

----- Original Message -----=20

From: <ARDUJENSKI@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, June 19, 2000 10:11 AM
Subject: EMTECH-FORUM

> Not sure if all you lucky folks that own an EMTECH (smile) are aware =
of the=20
> discussion message board available at <http://emtech.steadynet.com/>. In =

> reviewing many sites it is interesting to note that the rig with no =
list of=20
> mods is the EMTECH series. Alan KB7MBI

Date: Mon, 19 Jun 2000 19:32:09 -0700 (PDT)
From: Jeff <fantbb@yahoo.com>
To: qrp qrp <qrp-1@lehigh.edu>

Subject: [73007] Non regulated solar charging during operation
Message-ID: <20000620023209.2206.qmail@web112.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

We are discussing using large 70 amp 3 deep cycle batteries hooked up to unregulated solar panels during operating on Field Day. The solar panels put out about 17 volts max with about 300 milliamps of current at max.

I was wondering with the size of the batteries we will be using would the solar panels have a large chance of cooking the batteries?

Now we can run the solar panels with 12 volt regulators but aren't sure if the voltage being locked right at 12 volts if that would be much help. Wondering if the current is what really matters here?

The current draw of the rigs we will be using are right around 100milliamps receive plus 1amp at keydown. Heavier current draws using the VHF/UHF rigs.

Thanks for any help!

Jeff

=====

Jeff Jones
AB6MB
NorCal QRP Club #65, QRP-L #1780, ARCI 10071
Radical FIST Member 6798
Voicemail/Fax 1-888-Excite2 ext 925-439-2514
ICQ 62450117

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Date: Tue, 20 Jun 2000 12:31:17 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73008] ByteMark
Message-ID: <394ED774.A4566594@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry,

Do we still have any contacts at ByteMark? or other toroid manufacturer / supplier?. Haven't heard from Tracy in ages. Please reply direct.

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"
URL - <http://www.integritynet.com.au/~purdic/>

Date: Mon, 19 Jun 2000 21:40:27 -0500
From: Stuart Rohre <rohre@arlut.utexas.edu>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [73009] QRP FD in Central TX
Message-ID: <394ED99B.F091AB78@arlut.utexas.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Anderson High School Practice Fields will again be the site of the combined clubs Field Day in Austin TX.

Austin Amateur Radio Club along with A-QRP, QCWA, ARO, Austin TV Club, etc., will host W5KA 2A battery on cw and SSB at least. Hopefully, satellite and psk31 will also be available. That is, if the BBQ chef has time! (K5EJL). It looks like we will not have a specific Novice station, as no Novices stepped forward to set up. A sign of restructuring?

Austin Travis County ARES will be nearby with W5TQ, as a QRO entry. However, they also will be on batteries! A LOT of batteries! A communications vanbulance will house this entry. There will also be an exhibit of boatanchor gear! (Except the SSB station will use a BA transistor rig, the Atlas 110!) And maybe a Ten Tec 505!

QRP antennas will include extended Double Zepps of 5/8 legs, tri band beam, and perhaps a monster loop if set up time permits.

We will start on 10M and move down as propagation dictates.
72, Stuart K5KVH

Date: Mon, 19 Jun 2000 21:48:16 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@lehigh.edu>
Subject: [73010] re: QRP on the Alinco DX-70t
Message-ID: <00e001bfda61\$fd3ae3a80\$c3c9e0d8@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello everyone.

Here is an update on making the Alinco DX70t run QRP. Some asked for a report. Thank you for the good response and help. There is a switch inside the rig that switches it to 50watts output. With is switched to the 50 watt position, the low setting on the front should produce 5 watts out and the hi should produce 50 watts. But some reported a higher output on the low setting...more like 7 watts.... this is what my rig is showing. So.... does anyone know how to lower that to 5 watts? Maybe there is an internal pot to set it to 5 watts? I don't really want to feed a voltage to the ALC... any other thoughts? ... ideas? I have emailed Alinco in the past with no response. Maybe I'll try again.

73,

Kelly Ellison - WB0WQS

Date: Mon, 19 Jun 2000 21:57:03 -0500
From: Randy & Cara Randall <crrandal@seidata.com>
To: fantbb@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [73011] Re: Non regulated solar charging during operation
Message-ID: <394EDD7F.A86CEB0C@seidata.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You could hook the panels up to the battery with an isolation diode and you will be fine. It would take 256.66 hours to fully charge a 70 Ah battery.

(70Ah * .3A+10%). You are going to be using it for 2 days right? It would take

32 days to charge the battery with 8 hours of light a day with no load. And if I am

reading your message correctly you are going to have 3 70 Ah batteries?
Hook them up,
play radio and don't worry. It would take a very long time to damage the
battery charging them at this rate. Now if you were using this on a long
term basis, you would need some type of charge controller.
Randy.

Jeff wrote:

> We are discussing using large 70 amp 3 deep cycle batteries hooked up
> to unregulated solar panels during operating on Field Day. The solar
> panels put out about 17 volts max with about 300 milliamps of current
> at max.
> I was wondering with the size of the batteries we will be using would
> the solar panels have a large chance of cooking the batteries?
>
> Now we can run the solar panels with 12 volt regulators but aren't
> sure if the voltage being locked right at 12 volts if that would be
> much help. Wondering if the current is what really matters here?
>
> The current draw of the rigs we will be using are right around
> 100milliamps receive plus 1amp at keydown. Heavier current draws
> using the VHF/UHF rigs.
>
> Thanks for any help!
>
> Jeff
>
> =====
> Jeff Jones
> AB6MB
> NorCal QRP Club #65, QRP-L #1780, ARCI 10071
> Radical FIST Member 6798
> Voicemail/Fax 1-888-Excite2 ext 925-439-2514
> ICQ 62450117
>
> -----
> Do You Yahoo!?
> Send instant messages with Yahoo! Messenger.
> <http://im.yahoo.com/>

--
"Twixt optimist and pessimist
The difference in droll:
The optimist sees the doughnut,
The pessimist, the hole." --McLandburgh Wilson

Date: Mon, 19 Jun 2000 23:08:21 EDT
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [73012] SMK-1 in a wood case
Message-ID: <20000619.220204.4655.1.N5IB@juno.com>

Finally finished a little wooden box (with a clear lucite top - so as to be able to admire the rig) for my SMK-1

go to

<<http://www.qsl.net/n5ib/page5.html>>

which is direct to the pics, or go to the main page

<<http://www.qsl.net/n5ib>>

and follow the links to the SMT and SMK-1 sections

72

Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 19 Jun 2000 23:31:44 EDT
From: Drbob92031@aol.com
To: qrp-1@lehigh.edu
Subject: [73013] car voltage reulator for solar charging?
Message-ID: <c8.6637e90.26803fa0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all;

Simplistic question. Would an automobile voltage regulator work in a charging circuit by solar panals. Would it keep the battery from being overcharged?

In otherwords would it be of any value and if so why and how? Or not?

72/73 de Bob WA2EAW

Date: Mon, 19 Jun 2000 23:39:48 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [73014] CAROLINA BEAM
Message-ID: <50.6f08017.26804184@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Doing some research on BOBTAILS I found this site on the CAROLINE BEAM. It looks interesting and was wondering if anyone has had operating experience with it?? Click here: ccwbeam.html

or go to <http://www.radioworks.com/ccwbeam.html>

Alan KB7MBI

Date: Tue, 20 Jun 2000 00:04:01 -0400
From: "Ron McConnell" <rcmcc@lucent.com>
To: <k7sz@epix.net>, <qrp-1@lehigh.edu>
Cc: <w2iol@arrl.net>
Subject: [73015] RE: Confessions of a Battery Assassin
Message-ID: <000801bfda6c\$a1c61660\$dc2aff87@nj7460rcmcc>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rich,

I believe that your plans with the 34 AH batteries and auto charger/maintainer should work. In the float/maintain state the auto box should hold the battery to 13.8 to 14 V, as Zack says, depending on temperature if it is really, really smart.

I have destroyed several perfectly good sealed lead acid (gel cell) batteries in nearly every way: overcharge,

overdischarge, non-charge/neglect
for years and mainly from ignorance.
I'm slowly working on an article with
a working title of
"TLC for SLABs for Dummies"
(Tender, Loving Care for Sealed Lead
Acid Batteries...)for us non-experts
on the subject.

Cheers, 73,
Ron McConnell
w2iol@arrl.net
PS: Rich, Dave Fifield owes you
a commission after your sales pitch
at Atlanticon. :-)

Date: Mon, 19 Jun 2000 21:32:41 -0700
From: Patrick Armstrong <aa7fg@gte.net>
To: qrp-l@lehigh.edu
Subject: [73016] QRT for vacation...
Message-ID: <394EF3E9.447B577F@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

remove

Date: Mon, 19 Jun 2000 21:52:05 -0700
From: Mike <campers@pocketmail.com>
To: <qrp-l@lehigh.edu>
Cc: <atrail@lehigh.edu>
Subject: [73017] Applachian Trail
Message-ID: <200006200452.VAA09085@disp-001.pocketmail.com>

Hello All - I will tentatively be operating on the trail between Pine Grove
Furnace and Caledonia State parks in PA, north of Route 30 between Chambersburg
and Gettysburg. I will be mostly around 7040 with 2 watts and a little around
14.060 with 1 watt. I presently plan to be on the trail starting Wednesday June
14, camp on the trail that night, and then camp at the other end from which I
start on Thursday night, and then head back to my starting point Friday morning,
camping on the trail Friday night and get back to my starting point Saturday. I
will probably be on the in the morning and evening, hiking the trail during the
time between. If there are any major changes I will try to advise. This will be my

first time on the trail so plans may change when I actually get there (I live near Cleveland, OH).

73 - Mike WA8BXN

Date: Tue, 20 Jun 2000 01:01:40 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [73018] Running an UN-GROUND station?
Message-ID: <c5.6a6e731.268054b4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Good article at <http://www.radioworks.com/nbgnd.html>.

Alan KB7MBI

Date: Tue, 20 Jun 2000 03:28:08 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [73019] RS-13 in Field Day
Message-ID: <Pine.3.89.10006200312.C9370-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Anyone else planning on trying for the FD Satellite bonus by making Q's through the Russian satellite? June QST, page 96 has some helpful hints. I would add one extra: Forget SSB and concentrate on CW. Since almost all two way 15M QSO's will be on SSB, trying to make a satellite QSO on CW will lessen the confusion. The Guano Reef Bashful Perverts will attempt to be available for every useable pass. We will use an IC-706MKII mobile with a Hustler sporting resonators for 10/15M. I'm figuring on trying just above the low band edge, around 21.260 up and 29.460 down. RS-13 sends a beacon at 29.458 to tell you when it's in range.

If anyone needs help calculating times the satellite will be available in their areas, I'll be glad to plug in your city and relay some times for you.

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Tue, 20 Jun 2000 06:58:02 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <Drbob92031@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [73020] Re: car voltage reulator for solar charging?
Message-ID: <005c01bfdaa6\$aacdbee0\$2c4dfea9@dadshp>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I haven't touched regulator circuits in a car for years... But the way I understand the current technology...

You mean the old 'regulators' that used to hang on the firewall of cars? Almost anything can be MADE to work.

Older regulators were simple 'two step' devices. High charge, low charge. Not really what you want.

Then a lot of alternators went to 'internal regulation'.

A lot of the new regulators aren't really what you could use either. They are almost intelligent processor that perform variable field control of the alternator to regulate the output.

That is, if you even have a regulator. The trend is to move all those functions to engine control computers.

Mike

> Hi all;
> Simplistic question. Would an automobile voltage regulator work in a charging
> circuit by solar panals. Would it keep the battery from being overcharged?
> In otherwords would it be of any value and if so why and how? Or not?
> 72/73 de Bob WA2EAW
>

Date: Tue, 20 Jun 2000 07:20:04 EDT
From: Wn4i@aol.com
To: qrp-l@lehigh.edu
Subject: [73021] Re: QRT for some time
Message-ID: <17.718b5c2.2680ad64@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Remove

Date: Tue, 20 Jun 2000 13:28:45 +0200
From: Alen Mitrovic <alen.mitrovic@hermes.si>
To: ".G-QRP Club" <GQRP@egroups.com>, qrp-l@Lehigh.EDU
Cc: s57nwg@siol.net, Robert VILHAR <robert.vilhar@iskratr.si>, s57c@hamradio.si,
S56A <Marijan.Miletic@ijs.si>, Batagelj Ivan <mehano@mehano.si>,
zrs-hq@hamradio.si, "Jelka H. Samec" <jelka.samec@siol.net>,
suzana.bolcic@siol.net, adi.voh@telekom.si, borissvagelj@hotmail.com,
rd@mehano.si,
Subject: [73022] QRP Expedition - DL/S50ZRS/P
Message-ID: <EA63CEA50DF8D311ABAD00B0D0211732C38140@hal9000.hermes.si>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi gang!

Slovenian crew in Friedrischafen from 21-24 june 2000 will try to be active

On all QRP freq on HF (only CW): 80m, 40m, 20m, 15m using MFJ 90-20(3W), and Sierra(1-2W) TRCV's.

On UHF 2m and 70 cm 2W (only FM) and

On SFH 1,2GHz

We'll use special call sign: DL/S50ZRS/P (ZRS --> Zveza Radioamaterjev Slovenije <== >Slovenian Amateur Radio Association)

Special QSl card will be also provided.

Crew: Milos - S53E0, Alen - S53MA, Dane - S57CQ, Vanja - S59AV

You can meet us also at S5 information and exhibition desk.

See yaa on the air

Best 73/72 de Alen / S53MA

Personal Webpage: <http://www.qsl.net/s53ma>

Date: Tue, 20 Jun 2000 07:42:27 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [73023] Taming the YAESU VR-500 Communications Receiver
Message-ID: <66FCE0D1DF76D311913800805F6D0FA3D4A68F@mailserver1.usan.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Have you ever wanted an all band, in fact, all frequency multimode receiver that tunes from 100kHz to 1300 MHz (yes thats 1,300,000 kHz) for CW, LSB,USB,WFM,NFM and AM?

It fits in a shirt pocket and uses two AA batteries. 0.5uV sensitivity with digital keypad of two speed encoder tuning CW at 100 Hz or 1 kHz. It's about the size of one of the miniHT rigs you see and infact YASEU makes a VHF/UHF HT that has some of these features but not SSB/CW modes just AM and FM only.

It even has dual watch capability (switches between two preset frequencies every 0.2 sec.) and a 600 KHz spectrum scope.

Well I bought one thinking they would be good for trips where I want to sneak in a little ham radio listening time plus catch a ball game, a TV program , airport traffic, check the time on WWV plus check beacons, etc.

First the good news: it works well (almost too well). You can hear the

signals of interest and a host of other signals at the same time.

You scratch your head wondering how they have room to filter that wide range of frequencies: Well THEY DON'T! (My opinion - I don't have a schematic)

It's like having a untuned NE602 front end with gain on all bands all at the same time. Ugh. It does have an attenuator that acts well and seems to have about a 20 dB drop. This does help the intermod quite well but still fails if you're using a real antenna instead of the rubber ducky that comes with it. I live in urban Atlanta GA near some strong commercial FM, AM and TV stations.

So what to do: (1) Take it back or (2) try to build something to sort out the crud.

Another Altoids Box project comes into focus:

Visualize a coax antenna terminal feeding a 1K POT with the wiper arm going to a small turn link in a toroid. The toroid is wound with about 55 turns and there is a tap at about 20 turns. The tap or the 20 turn tap is switch connected to a miniplastic cap (from a Vectronics unbuilt RX or TX kit) and another output link going to a coax to the VR-500 via a short coax RG-174 cable.

Also have a 100 pF fixed cap to the top of the LC tuned circuit so I can clip on short random wires instead of real full sized station antennas.

The LC tunes in two ranges: 3 - 13 MHz (low) and 13 - 28 MHz (high).

To use plug in the antenna to the Altoids box and the output from the Altoids box to the VR-500.

Set Hi or Lo freq. range and dial in the freq. area of interest then use the RF gain POT on the antenna set to limit the signals into the VR-500. Since the LC circuit is selecting the frequencies of interest these will not be attenuated to the degree that the real off freq. images and spurs so the receiver sees only the frequencies of interest at a level that it can handle. If the signals are still too strong you can crank in the receiver's internal attenuator too.

Now the Altoids box is about the size of the receiver but it is completely useable whereas before it was almost unuseable.

The only internal spur I have noticed is the 3.6864 I don't know if that's the clock frequency but when an antenna is connected the level drops into the noise like most spur laden rigs.

I will add the passive audio filter found on the NOGAPIG board. This will

help eliminate some very high frequency hiss noise and also peak up the 800 Hz CW rx tone. Since the rig tunes only in 100 Hz increments you don't want this too sharp.

This same technique can be used on any DC reciever that suffers from overload on lack of selectivity in the front-end. It's nothing more than a manual passive preselector that tunes the HF spectrum. If conditions are even more severe you might need to gang two LC stages in a DTC arrangement to cut off interference. Fortunately I haven't had to do this YET.

BTW I'm keeping the YAESU VR-500..... it is a very cute little receiver that actually works.

Sam Billingsley AE4GX Atlanta, GA
personal web page at <http://ae4gx.home.mindspring.com/>
North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>

Date: Tue, 20 Jun 2000 08:17:29 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [73024] Re: car voltage reulator for solar charging?
Message-ID: <003201bfdab1\$84de4910\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> Simplistic question. Would an automobile voltage regulator work in a charging
> circuit by solar panals. Would it keep the battery from being overcharged?
> In otherwords would it be of any value and if so why and how? Or not?

Bob,

It'd probably be more work than it's worth, for a couple of reasons:

- 1) Automotive regulators control the output of the car alternator by controlling the alternator's field coil current. As far as I know, solar panels don't have field coils.
- 2) You -could- build a circuit that would convert the field current output from an automotive regulator to a signal more suitable for a solar array, but it would probably be as elaborate as a solid-state charge controller anyway.

Just my \$0.01 worth. (Governor George got the other half.)

Dave

Date: Tue, 20 Jun 2000 05:34:22 -0600
From: "Alan Dawkins" <alk0frp@home.com>
To: <qrp-l@lehigh.edu>
Subject: [73025] W0CQC TWO sites
Message-ID: <009501bfdaab\$7b6a73a0\$ef280f18@c633484-a.aurora1.co.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I sent this direct to Tom AC7A but I will put it on the list.

W0CQC Colorado QRP Club again will be on Rampart Range SW of Denver at 8000 ft running 3A battery, with Novice and VHF.
Towers, monobanders wire beams on 40/80m.
Coordinator K0FRP and secondary FD coordinator KF7MD.
FD for competitive contestors.

Last year W0CQC was 7th highest score using 2A battery, we plan to increase our position by going 3a.
Our goal is 2500 q's as up from 1785 last year.

We also have a non-competitive FD located West of Denver at Bear Creek Lake Park our Aloha site (FD for Fun).
Coordinator CQC President AB0CD.
Remember this is not a contest HI. Just have fun.

Al K0FRP

Date: Tue, 20 Jun 2000 09:01:25 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [73026] More old radio stuff: another book

Message-ID: <20000620.090132.-112061.0.nilsbull@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Fellow crazies,

Yesterday the mailperson delivered another book about early radio that I'd found indirectly on the web. This one is also a reprint of a much earlier work that covers some interesting topics.

The book is "Wireless Telegraphy: Its Origins, Development, Inventions, and Apparatus" by Charles Henry Sewall. The original, published in 1903, has been reprinted by Brohan Press, 89 Roseland Ave., Waterville, CT 06710, 203-755-1114, ISBN 1-930423-07-1.

I'm not sure of the price, I spent \$30, which is way high, after the fact, for a softcover book, but given the subject matter & the interesting stuff inside, is probably ok.

Check 'm out.

73

Nils

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes
Sonrientes

<http://www6.50megs.com/w8ijn> -- W8IJN -- <http://members.xoom.com/nilsbull>

In my day you had to FIGHT to have digits! Every DAY was a STRUGGLE!

--- Comrade Nikolai Sergeevich McTovarishov

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 20 Jun 2000 08:54:36 -0500

From: Charles K Brown <n4so@juno.com>

To: qrp-l@lehigh.edu

Subject: [73027] ZM-2 ATU Antenna Tuning Unit

Message-ID: <20000620.085437.10870.3.n4so@juno.com>

emtech.txt

Tunes all bands with no antenna feedline adjustment.

80 through 10 meters
EMTECH
1127 Poindexter Ave. W
Bremerton, WA 98312

emtech@steadynet.com
<http://emtech.steadynet.com>

ZM-2 ATU Antenna Tuning Unit
\$50 Tunes all kinds of antennas 80- 10 meters.
Max. power is 15 watts. Kit is complete with no
parts to find or order. With SWR Visual Indication.

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element yagi

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 20 Jun 2000 07:00:24 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: SBillingsley@usaninc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73028] Re: Taming the YAESU VR-500 Communications Receiver
Message-ID: <394F78F8.9D19E361@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sam,

I looked into that one and came to similar conclusions.

I decided to use my VX-5R for the VHF-UHF stuff (also have the little Icom, which has a wideband RX), and buy a Sony SW-100 for the HF-type stuff.

I am intrigued by the VR-500, but (given what I already have) I decided

I do not need it.

Phil

Sam Billingsley wrote:

>
> Have you ever wanted an all band, in fact, all frequency multimode receiver
> that tunes from 100kHz to 1300 MHz (yes thats 1,300,000 kHz) for CW,
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>
> It fits in a shirt pocket and uses two AA batteries. 0.5uV sensitivity with
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> of frequencies: Well THEY DON'T! (My opinion - I don't have a schematic)
>
> Its like having a untuned NE602 front end with gain on all bands all at the
> same time. Ug. It does have an attenuator that acts well and seems to have
> about a 20 dB drop. This does help the intermod quite well but still fails
> if you're using a real antenna instead of the rubber ducky that comes with
> it. I live in urban Atlanta GA near some strong commerical FM,AM and TV
> stations.
>
> So what to do: (1) Take it back or (2) try to build something to sort out
> the crud.
>
> Another Altoids Box project comes into focus:
>
> Visualize a coax antenna terminal feeding a 1K POT with the wiper arm going
> to a small turn link in a toriod. The toroid is wound with about 55 turns
> and there is a tape at about 20 turns. The top or the 20 turn tap is switch
> connected to a miniplactic cap (from a Vectronics unbuilt RX or TX kit) and
> another output link going to a coax to the VR-500 via a short coax RG-174
> cable.
>
> Also have a 100 pF fixed cap to the top of the LC tuned circuit so I can

> clip on short random wires instead of real full sized station antennas.
>
> The LC tunes in two ranges: 3 - 13 MHz (low) and 13 - 28 MHz (high).
>
> To use plug in the antenna to the Altoids box and the output from the
> Altoids box to the VR-500.
>
> Set Hi or Lo freq. range and dial in the freq. area of interest then us the
> RF gain POT on the antenna set to limit the signals into the VR-500. Since
> the LC circuit is selecting the frequencies if interest these will not be
> attenuated to the degree that the real off freq. images and spurs so the
> reciever ses only the frequencies of interest at a level that it can handle.
> If the signals are still too strong you can crank in the receivers internal
> attenuator too.
>
> Now the Altoids box is about the size of the receiver but it is completely
> useable whereas before it was almost unuseable.
>
> The only internal spur I have noticed is the 3.6864 I don't know if thats
> the clock frequency but when an antenna is connected the level drops into
> the noise like most spur laden rigs.
>
> I will add the passive audio filter found on the NOGAPIG board. This will
> help eliminate some very high frequency hiss noise and also peak up the 800
> Hz CW rx tone. Since the rig tunes only in 100 Hz increments you don't want
> this too sharp.
>
> This same technique can be used on any DC reciever that suffers from
> overload on lack of selectivity in the front-end. It's nothing more that a
> manual passive preselector that tunes the HF spectrum. If conditions are
> even more severe you might need to gang two LC stages in a DTC arrangement
> to cut off interfeence. Fortunately I haven't had to do this YET.
>
> BTW I'm keeping the YAESU VR-500..... it is a very cute little receiver that
> actually works.
>
> Sam Billingsley AE4GX Atlanta, GA
> personal web page at <http://ae4gx.home.mindspring.com/>
> North Georgia QRP Club web page at <http://www.qsl.net/nogaqrp/>

Date: Tue, 20 Jun 2000 09:11:49 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: antennas@qth.net, qrp-l@Lehigh.EDU
Subject: [73029] vertical radials
Message-ID: <394F7BA5.8F0D5A3E@kdsi.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

am looking for details on using twin-lead radials for butternut
verticals - while ago there were some explanations of cutting the
twin-lead for multiband purposes. Could someone send me the
measurements/bands info?

tnx

Dave K8BBM

Date: Tue, 20 Jun 2000 10:09:43 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: SBillingsley@usaninc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [73030] Re: Taming the YAESU VR-500 Communications Receiver
Message-ID: <394F7B27.56AA@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sam,

Icom has been making the IC-R1 and later the IC-R2 for amny years now.
I have had an R1 since I was still living in California. Their specs
are very similar to the Yaesu's. The biggest problem they have is they
aren't optimized for amateur use AT ALL. They aren't even very good
Shortwave Broadcast radios. They have marginal antennas and they have
almost NO selectivity built in. About all they have is a wide range
synthesizer system!

Your idea of a "do-all" preselector for the front end is nice, but it
will only give you selectivity about equal to a Heath HW-7. Trying to
use one preselector for the full range of 1300 MHz is impossible. Using
even a single preselector of the range 3.5 to 10 MHz leaves a lot to be
desired.

A larger problem is the lack of CW and SSB modes for the radios. There
isn't very much you can do there. And the channelization of the
receiver means many of the signals you might hear will be missed just
because you're on the wrong channel.

These radios are useful as very general purpose receivers, not serious
receivers. It is a shame, but that is the way it is. You can rade
about more radios of the same type in Popular Communications and
probably Monitoring Times.

Date: Tue, 20 Jun 2000 09:06:26 -0500
From: "Ed Manuel (N5EM)" <n5em@flash.net>
To: qrp-l@lehigh.edu
Subject: [73031] YAESU VR-500 Communications Receiver
Message-ID: <4.1.20000620090221.009e8be0@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>BTW I'm keeping the YAESU VR-500..... it is a very cute little receiver that
>actually works.
>
>Sam Billingsley AE4GX Atlanta, GA

Great minds obviously have the same weaknesses! I, too, have the VR500 and
also the VX-5R. I love them.

Now, if only we had a cw transmitter that worked 160 to light (well, I'd
settle for somewhere between 20 and 6 meters) that put out .5 to 1 watt and
was about the same size as the VR500 . . . Altoids would be just fine . . .

Ed, N5EM

Date: Tue, 20 Jun 2000 10:15:36 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: <fantbb@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [73032] Re: Non regulated solar charging during operation
Message-ID: <1000520101537.KAA23328@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 6/19/00 10:32 PM, Jeff at fantbb@yahoo.com wrote:

>We are discussing using large 70 amp 3 deep cycle batteries hooked up
>to unregulated solar panels during operating on Field Day. The solar
>panels put out about 17 volts max with about 300 milliamps of current
>at max.

300 mA is barely enough to trickle charge 70 AH batteries.

>I was wondering with the size of the batteries we will be using would

>the solar panels have a large chance of cooking the batteries?

I don't think so. 300 mA at 17 V (provided you actually get that much on the batteries) is 5.1 watts. If all of the solar panel discharge is converted into heat, you'll have less heat than from your typical night-light, and it will be disbursed throughout the entire battery.

Be sure to put a diode in series with the panel to avoid discharging the battery through the panel.

>Now we can run the solar panels with 12 volt regulators but aren't
>sure if the voltage being locked right at 12 volts if that would be
>much help. Wondering if the current is what really matters here?

Typical lead-acid 12 volt batteries are charged at voltages anywhere from 12.8 to 14.4 volts, with 13.8 V being typical.

>The current draw of the rigs we will be using are right around
>100milliamps receive plus 1amp at keydown. Heavier current draws
>using the VHF/UHF rigs.

The 70AH batteries may be able to last the entire FD with no charging. You'll have to run the calculations to see.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org

Quote: "Boot, you transistorized tormentor! Boot!"

-- Archibald Asparagus, VeggieTales

Date: Tue, 20 Jun 2000 07:34:37 -0700

From: Radman <radman@best.com>

To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>

Subject: [73033] FS - MFJ Keyer - 401C -- SOLD!!

Message-ID: <01BFDA8A.0118AE80@radman.vip.best.com>

Gang,

Subject says it all. Thanks for the response!

73,

Conrad - NN6CW

Date: Tue, 20 Jun 2000 10:36:59 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <aa4lr@radio.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [73034] Re: Non regulated solar charging during operation
Message-ID: <01d201bfdac5\$02d83700\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just remember that pulling the load from the panels will pull the voltage down. If the panels can put out 300ma at 17v, I suspect that if you 'load' them with the battery, they might drop to 14v and possibly boost current a bit. (And remember that DIODE!)

In any case, I would probably consider the panels like you do a very 'light duty' wall wart on a battery pack. Under no use, it might be able to charge a battery pack. But under use it keeps the pack at best just ahead of it's discharge trend. Or if it does discharge, it extends it.

Me? I'd just do it. But don't forget that diode.

Mike

> On 6/19/00 10:32 PM, Jeff at fantbb@yahoo.com wrote:
>
> >We are discussing using large 70 amp 3 deep cycle batteries hooked up
> >to unregulated solar panels during operating on Field Day. The solar
> >panels put out about 17 volts max with about 300 milliamps of current
> >at max.
>
> 300 mA is barely enough to trickle charge 70 AH batteries.
>
> >I was wondering with the size of the batteries we will be using would
> >the solar panels have a large chance of cooking the batteries?
>
> I don't think so. 300 mA at 17 V (provided you actually get that much
on
> the batteries) is 5.1 watts. If all of the solar panel discharge is
> converted into heat, you'll have less heat than from your typical
> night-light, and it will be disbursed throughout the entire battery.
>
> Be sure to put a diode in series with the panel to avoid discharging
the

> battery through the panel.
>
> >Now we can run the solar panels with 12 volt regulators but aren't
> >sure if the voltage being locked right at 12 volts if that would be
> >much help. Wondering if the current is what really matters here?
>
> Typical lead-acid 12 volt batteries are charged at voltages anywhere
from
> 12.8 to 14.4 volts, with 13.8 V being typical.
>
> >The current draw of the rigs we will be using are right around
> >100milliamps receive plus 1amp at keydown. Heavier current draws
> >using the VHF/UHF rigs.
>
> The 70AH batteries may be able to last the entire FD with no charging.
> You'll have to run the calculations to see.
>
>
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
> Quote: "Boot, you transistorized tormentor! Boot!"
> -- Archibald Asparagus, VeggieTales
>
>
>

Date: Tue, 20 Jun 2000 10:25:21 -0500
From: Charles K Brown <n4so@juno.com>
To: qrp-1@lehigh.edu
Subject: [73035] Unitrode UC-3906 Charger
Message-ID: <20000620.102522.10870.6.n4so@juno.com>

Unitrode UC-3906 Distributed by several part supply
chains: Hamilton/Avnet, Hallmark Electronics and NU
Horizons. Source: page 27-17 ARRL Handbook Edition 1994-
A Gelled-Electrolyte Battery Charger, originally an article in QST June
1987 by Warren Dion. This circuit
works on Lead-Acid batteries as well.

Two versions are marketed from A & A Engineering and
Jade Products (jadepro@jadeproducts.com). Yes, I own
the Jade Products battery controller.

Requirements of charging are fairly strict-- from
page 27-16, "can be charged with a fairly large current
(a bulk rate, c/4 at most) at the beginning of the charge

cycle, but they require a reduced, tapering current
in the "overcharge" region. Battery life is severely shortened if any
charging continues once the full-charge
level (2.25v to 2.3v per/cell) is achieved....The Unitrode
UC3906/ or UC2906 ...Sealed Lead-Acid Battery Charger IC
competently handles all of these requirements."
Overcharge voltage limit 14.445v
Float voltage 13.8v
Bulk charge current .5 Amps

"They can be maintained at a "float" level (2.25v to 2.3v
/cell, however, for long periods". This equates to the
13.8 volts level.

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element yagi

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 20 Jun 2000 09:35:37 -0600 (MDT)
From: "James P. Rybak" <jrybak@mesastate.edu>
To: qrp-1@lehigh.edu
Subject: [73036] Has Anyone Seen/Tried an Elecraft K1 ???
Message-ID: <Pine.LNX.4.21.0006200933540.6164-100000@mesastate.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm wondering if anyone has seen and tried the new Elecraft K1
transceiver? I understand that they were going to be shown at Dayton.

Thanks.

Jim Rybak W0KSD

Date: Tue, 20 Jun 2000 09:10:37 -0700 (PDT)

From: Monte Stark <ku7y@dri.edu>
To: osier <osier@northnet.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [73037] Re: WTB : Tubing to build yagis.....
Message-ID: <Pine.GS0.4.10.10006200910090.8428-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 17 Jun 2000, osier wrote:

> Hello All !!!!!
>
> A friend of mine is trying to locate a place that sells aluminum tubing
> for construction of yagis and towers ...anyone know of any ?????
>
> 73s es tn timer !!!!!
>
> George , N2JNZ/QRP
>
>

Texas Towers has it.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Tue, 20 Jun 2000 09:34:35 -0700 (PDT)
From: ABCQRP <w6abc@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [73038] DSW-20 Bay Area Troubleshooter needed
Message-ID: <20000620163435.28987.qmail@web2105.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi,

I have a completed DSW-20 that worked great for a day!
Until I went probing the PC board checking to solve a
slight ground hum. I wanted to take the rig along on
a trip in July and wondered if anyone in the San
Francisco area is adept at trouble-shooting this rig

since I am having little luck (or confidence) at solving the problem. The DSW receives but will not key into transmit mode anymore. I replaced the Q3 and Q4. The new Q4 brought the receiver back to life but still no transmit. I am thinking of sending it back to Dave at Small Wonder but am not sure the turnaround will meet the trip time.

73,

Jack in Oakland

Do You Yahoo!?

Send instant messages with Yahoo! Messenger.

<http://im.yahoo.com/>

Date: Tue, 20 Jun 2000 12:38:19 -0400

From: Sam Billingsley <SBillingsley@usaninc.com>

To: w6toy@erols.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [73039] RE: Taming the YAESU VR-500 Communications Receiver

Message-ID: <66FCE0D1DF76D311913800805F6D0FA3D4A7E5@mailserver1.usan.com>

MIME-Version: 1.0

Content-Type: text/plain

I agree with you Bruce but for casual ham monitoring and some QRPP operating on the road with minimal TX and antennas it can be made better than a simple NE602 RX (ie the SMK, MRX, Vectronics, Ramsey, etc). My goal was a stealth rig tucked away in brief case or backpack for the occasional operating urge. After working 12 states using the PIXIE(for RX and TX) this VR-500 is a joy. My thought is to add a generic TX (multi-band with plugins) in another Altoids box and have as very small but flexible HR all band xcvr capability.

BTW the VR-500 actually has the CW and SSB (LSB/USB) in addition to the other modes. On CW you get the DC receiver effect (ie can copy the signal on either side of zero beat. A passive filter will help here to cut down the away from 800 Hz filter center.

The 100Hz encoder tuning increment on CW/SSB is not too bad. Much like the other DDS simple rigs out there.

It's not quite as good as my Sony 2010 on HF but it's about 1/10th the size and 1/20th the weight.

My single HF only preselector does a decent job considering how simple it is. the two ranges: 3-13mHz and 13-28mHz seem easy to peak and detect a

definite cleanup on the input noise and off freq. signals.

I think if you build a double tuned LC bandpass filter that you could receive a given section of the HF spectrum very well . I haven't needed it yet.

Sam AE4GX

>From Bruce W6TOY 6/20/00:

> Icom has been making the IC-R1 and later the IC-R2 for many years now.
> I have had an R1 since I was still living in California. Their specs
> are very similar to the Yaesu's. The biggest problem they have is they
> aren't optimized for amateur use AT ALL. They aren't even very good
> Shortwave Broadcast radios. They have marginal antennas and they have
> almost NO selectivity built in. About all they have is a wide range
> synthesizer system!
>
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> will only give you selectivity about equal to a Heath HW-7. Trying to
> use one preselector for the full range of 1300 MHz is impossible. Using
> even a single preselector of the range 3.5 to 10 MHz leaves a lot to be
> desired.
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> These radios are useful as very general purpose receivers, not serious
> receivers. It is a shame, but that is the way it is. You can rade
> about more radios of the same type in Popular Communications and
> probably Monitoring Times.
>
> 73

Date: Tue, 20 Jun 2000 13:27:17 -0400
From: Fred Lesnick <flesnick@tbaytel.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, QRP Canada <qrp-canada@lists.gpfn.sk.ca>
Subject: [73040] RS 12/13
Message-ID: <394FA975.D36972A9@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Does anyone know if RS12/13 is still up and running.....I have been listeng for some time now and never hear its beacon....I have had a load of fun operating this bird at 3 watts for many years.....My tracking programs give me and idea of the passes but I never hear them.....

Thanks
Fred
VE3FAL
EN58hh

Date: Tue, 20 Jun 2000 13:40:43 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Fred Lesnick <flesnick@tbaytel.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [73041] Re: RS 12/13
Message-ID: <Pine.3.89.10006201316.A14624-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 20 Jun 2000, Fred Lesnick wrote:

>
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> listeng for some time now and never hear its beacon....I have had a load
> of fun operating this bird at 3 watts for many years.....My tracking
> programs give me and idea of the passes but I never hear them.....
>

Nova reported a pass over Ft. Lauderdale at about 8:30 this morning (EDST).
The beacon was quite strong at about 29.458 and I squeeked out one QSO
with K40RD before it went out of range.

73,

Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Tue Jun 20 13:44:28 2000
From: AA3BP@aol.com
To: <qrp-l@lehigh.edu>
Subject: [73042] uMountaineer Xtal
Message-ID: <200006201744.NAA188480@nss4.cc.lehigh.edu>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Date: Tue, 20 Jun 2000 10:46:25 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: jrybak@mesastate.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73043] Re: Has Anyone Seen/Tried an Elecraft K1 ???
Message-ID: <394FADF1.E4A75ABA@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My understanding is that it is in a very limited (10 or so?) field test program now. Wayne has been heard operating one and reports are good. But I've seen nothing beyond the info on the web site. And, having one on order, I am alert for any info I can find!

Phil

"James P. Rybak" wrote:

>
> I'm wondering if anyone has seen and tried the new Elecraft K1
> transceiver? I understand that they were going to be shown at Dayton.
>
> Thanks.
>
> Jim Rybak W0KSD

Date: Tue, 20 Jun 2000 13:50:24 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [73044] Re: RS 12/13
Message-ID: <000a01bfdae0\$05f190b0\$2d0a05cc@rochester.com>

MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> Does anyone know if RS12/13 is still up and running.....I have been
> listeng for some time now and never hear its beacon....I have had a load
> of fun operating this bird at 3 watts for many years.....My tracking
> programs give me and idea of the passes but I never hear them.....

Fred,

Do you have recent orbital elements for your tracking program? It never
hurts to try updating orbital data.

Dave

Date: Tue, 20 Jun 2000 13:53:32 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: David Hinerman <dlh1009@ritvax.isc.rit.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73045] Re: RS 12/13
Message-ID: <Pine.3.89.10006201323.A16809-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 20 Jun 2000, David Hinerman wrote:

>
> Do you have recent orbital elements for your tracking program? It never
> hurts to try updating orbital data.
>

Can also forward Keps to anyone who needs them. Newest ones are about
two days old...

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Tue, 20 Jun 2000 13:57:44 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [73046] Re: RS 12/13
Message-ID: <001301bfdae1\$09a99a30\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> >
> > Do you have recent orbital elements for your tracking program? It never
> > hurts to try updating orbital data.
> >
> Can also forward Keps to anyone who needs them. Newest ones are about
> two days old...

Bob,

How long can orbit data on the RS birds "age" before the tracking errors become unacceptable? Some years ago (well, 10 maybe) I used to try to impress the kids by listening for RS-10/11, but I always made it a point to download the most recent orbital files I could find. I was usually within a minute or two of the predicted crossing.

Dave

Date: Tue Jun 20 14:02:34 2000
From: AA3BP@aol.com
To: <qrp-1@lehigh.edu>
Subject: [73047] HB: **uMountaineer Xtal**
Message-ID: <200006201802.0AA193346@nss4.cc.lehigh.edu>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

FYI...

I contacted Hy-Q xtal folks re: price and availability of a 10 meter xtal for the uM per the QST article. Received a very prompt response stating that a third overtone xtal for 28.020 would cost \$12.75 plus \$7.50 for UPS shipping. Lead time

is three weeks from receipt of order. (Shipping charges kinda gets one's attention -- must be a whole lot heavier than I anticipated!)

I have no issues with ordering the frequency dependent parts from Kanga except that I agree with the article that 28.060 may be a tad high in the band for dx.

Thought the info might be useful. Anyone know of alternative sources/options?

73,
Jim, AA3BP
Mechanicsburg, PA

Date: Tue, 20 Jun 2000 14:11:56 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: David Hinerman <dlh1009@ritvax.isc.rit.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73048] Re: RS 12/13
Message-ID: <Pine.3.89.10006201415.B17408-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

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> impress the kids by listening for RS-10/11, but I always made it a point to
> download the most recent orbital files I could find. I was usually within a
> minute or two of the predicted crossing.

>
Can't answer that question (Gawd, QRP-L subscribers will have to set up a Philter for me!), but can tell you that ARRL posts updates about once a week. If you update now, the passes you calculate for Field Day should be correct within a few seconds. You really need that kind of accuracy since each pass will last a Maximum of about 15 minutes with the less direct passes being quite brief. If you have any doubt about picking up the latest Keps, I can send them to you as a message attachment. My file is named NOVA.DAT, so you would simply rename it to what your tracking software expects to find.

73,
, ' ' ' ,
Bob Patten, N4BP (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Tue, 20 Jun 2000 14:21:16 -0400
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp1_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [73049] RE: HB: **uMountaineer Xtal**
Message-ID: <66FCE0D1DF76D311913800805F6D0FA3D4A84F@mailserver1.usan.com>
MIME-Version: 1.0
Content-Type: text/plain

Another source is International Crystal Manufacturing Co. 1-800-725-1426 at:
<http://www.icmfg.com/>
The North Georgia QRP club is using ICM for a 6 meter xcvr project that uses
3th overtone xtals. We just ordered them and expect delivery in a week so I
can't comment on results yet. Group buys might produce lower costs.
Sam AE4GX North Georgia QRP Club NOGA

from qrp-1 Date: Tue Jun 20 2000 - 14:02:34 EDT
FYI...

I contacted Hy-Q xtal folks re: price and availability of a 10 meter xtal
for the uM per the QST article. Received a very prompt response stating
that a third overtone xtal for 28.020 would cost \$12.75 plus \$7.50 for UPS
shipping. Lead time is three weeks from receipt of order. (Shipping charges
kinda gets one's attention -- must be a whole lot heavier than I
anticipated!)

I have no issues with ordering the frequency dependent parts from Kanga
except that I agree with the article that 28.060 may be a tad high in the
band for dx.

Thought the info might be useful. Anyone know of alternative
sources/options?

73,
Jim, AA3BP
Mechanicsburg, PA

Date: Tue, 20 Jun 2000 13:24:21 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: <flesnick@tbaytel.net>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [73050] RE: RS 12/13
Message-ID: <000301bfdae4\$c1dc1d50\$153fc6d8@wb5rue>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

RS-12 is turned off but RS-13 is still operating, sort of. I heard it during the last pass this morning.

72/73
Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Fred Lesnick
> Sent: Tuesday, June 20, 2000 12:27 PM
> To: Low Power Amateur Radio Discussion
> Subject: RS 12/13
>
>
> Does anyone know if RS12/13 is still up and running.....I have been
> listeng for some time now and never hear its beacon....I have
> had a load
> of fun operating this bird at 3 watts for many years.....My tracking
> programs give me and idea of the passes but I never hear them.....
>
> Thanks
> Fred
> VE3FAL
> EN58hh
>
>

Date: Tue, 20 Jun 2000 12:14:07 -0700
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@lehigh.edu
Subject: [73051] FS:NorCal 20 with RTTY Interface

Message-ID: <394FC27F.D3114603@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'll probably regret this later but I'm offering my NorCal 20 QRP transceiver for sale. It is stock except for the ten-turn pot and an internal RTTY interface. The cabinet is still unpainted and I have not done the agc mods. The RTTY interface was featured in a recent issue of QRPp. Unfortunately I don't have a copy of the article because I loaned it out to a guy who moved and never returned it. The rig works perfectly on both CW and RTTY and puts out a solid 5+ watts. It runs stone cold on RTTY. I am asking \$130 plus actual shipping and insurance.

--

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>

Date: Tue, 20 Jun 2000 12:17:52 -0700
From: Radman <radman@best.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [73052] FS - Ramsey CW-700 memory keyer
Message-ID: <01BFDAB1.95BFBA20@radman.vip.best.com>

Gang,

FS -- Ramsey CW-700 Micro Memory Keyer with memory expansion board.

Features: built-in touch sensitive paddles, dot-dash memories, 4 programmable message buffers of up to 26 words, built-in sidetone with adjustable pitch, variable speed from 3 to 60 WPM. A VMOS FET transistor output will key any rig without interface problems and TTL output is provided. Supports straight keys, iambic paddles or touch paddles. The keyer comes with a new 9V battery, and will operate on 9 - 12 VDC via a 2.5mm female power jack. Case (included) size: 5" x 1.5" x 7.25" (w/paddles). This keyer is nicely built and ready to operate!

CW-700MX Memory expansion kit adds 32 message buffers. This memory kit is still sealed in the factory bag with manual. It uses a rotary switch to select any of eight memory banks with four messages per bank.

Summary: The Ramsey CW-700 is interesting for those intrigued with touch sensitive paddles or those in need of *tons* of message buffers. The touch

paddles are a bit of a "gimmick," IMO - but the keyer is very solid in performance and has a nice user interface. It comes minus the front & rear plastic case panels (short-shipped) and includes a 14 page online reprint of the users manual.

Ramsey's price for all: ~ \$115.00 -- I'll ship to your door for \$60.00.

Sound fair?

73,

Conrad Weiss - NN6CW

Date: Tue, 20 Jun 2000 20:17:55 +0100
From: "Mel Evans" <mel@euramcom.freeserve.co.uk>
To: <aa4lr@radio.org>
Cc: <qrp-l@lehigh.edu>
Subject: [73053] Re: Non regulated solar charging during operation
Message-ID: <009f01bfdaec\$a32967c0\$1832883e@dsnqutvf>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gangue,

FWIW, another of my hobbies is caravanning (camping with a towed trailer van for you colonial types HI!).

Solar panels are becoming extensively used here in the UK as an alternative charge source for the 12v battery fitted to these caravans to run the water pumps and 12v fluorescent lights plus a small TV and the likes They invariably have only a protection diode in the circuit. As Bill says, the current available at maximum output is completely unlikely to cause ANY problem with a normal lead acid battery. I can confirm that these panels will struggle to charge a discharged battery from a "flat" condition. They will however keep a fully charged battery in good condition for up to about ten days or so dependent on the consumption of the appliances/circuits powered from the van battery.

For reference, I have an 85Ah battery and a single panel which delivers around 125mA at full blast (off load volts about 18.9v up to 21.3 in full sunlight - - - or what passes for full sunlight here!) so that should give you an idea of results. My last battery was 4.5yrs old when it was sold

along with my last caravan and was still performing ok for up to the ten days at a time

Regards

Mel
GM6JAG
Edinburgh, Scotland UK
Home of the last HW9

-----Original Message-----

From: Bill Coleman AA4LR <aa4lr@radio.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 20 June 2000 14:40
Subject: Re: Non regulated solar charging during operation

>On 6/19/00 10:32 PM, Jeff at fantbb@yahoo.com wrote:

>

>>We are discussing using large 70 amp 3 deep cycle batteries hooked up
>>to unregulated solar panels during operating on Field Day. The solar
>>panels put out about 17 volts max with about 300 milliamps of current
>>at max.

>

>300 mA is barely enough to trickle charge 70 AH batteries.

>

>>I was wondering with the size of the batteries we will be using would
>>the solar panels have a large chance of cooking the batteries?

>

>I don't think so. 300 mA at 17 V (provided you actually get that much on
>the batteries) is 5.1 watts. If all of the solar panel discharge is
>converted into heat, you'll have less heat than from your typical
>night-light, and it will be disbursed throughout the entire battery.

>

>Be sure to put a diode in series with the panel to avoid discharging the
>battery through the panel.

>

>>Now we can run the solar panels with 12 volt regulators but aren't
>>sure if the voltage being locked right at 12 volts if that would be
>>much help. Wondering if the current is what really matters here?

>

>Typical lead-acid 12 volt batteries are charged at voltages anywhere from
>12.8 to 14.4 volts, with 13.8 V being typical.

>

>>The current draw of the rigs we will be using are right around
>>100milliamps receive plus 1amp at keydown. Heavier current draws
>>using the VHF/UHF rigs.

>

>The 70AH batteries may be able to last the entire FD with no charging.
>You'll have to run the calculations to see.

>

>

>

>Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org

>Quote: "Boot, you transistorized tormentor! Boot!"

> -- Archibald Asparagus, VeggieTales

>

>

Date: Tue, 20 Jun 2000 20:59:34 +0100
From: "Mel Evans" <mel@euramcom.freeserve.co.uk>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [73054] Solar Panels
Message-ID: <010301bfdaf2\$2d2678a0\$1832883e@dsnqutvf>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK Guys,

For your information, TO-DAY the temperature is currently at 25.4 only 18
miles South of Edinburgh, that's about 81 in the US money!

(Mind you, that means to-day must be the Scottish Summer!)

Regards

Mel

GM6JAG

Edinburgh Scotland UK

Home of the last HW9

Visit the British Caravanners Club Website for Scotland

<http://www.bccscotland.freeserve.co.uk>

for details of BCC activities in Scotland

Date: Tue, 20 Jun 2000 16:11:59 -0400 (EDT)
From: "John L. Sielke" <n4js@pobox.com>

To: qrp-1@lehigh.edu
Subject: [73055] FS: MPX-40 QRP DSB/CW Rig
Message-ID: <XFMail.000620161159.n4js@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Digitech Electronics MPX40 10W PEP/CW (adjustable) .
Digital Freq Readout
DSB (sounds just like SSB to receiving Station.)
Compact(8.3X6.1X2. Draws about 125ma on receive.
Uses same mike as Norcal Cascade/White Mountain XX, etc. (RS Speaker mike works
FB).
With Manual

I just don't care for phone operation any more, and if I do, I have the K2.

\$125 shipped CONUS.

/ \ / \ / \ / \ John L. Sielke n4js@pobox.com n4js@qsl.net
(N)(4)(J)(S) NJ Grid:FM29LN <http://www.qsl.net/n4js>
/ _/_ _/_ _/_ NJ-QRP #57 QRP-L #884 QRP-ARCI ARQrp #86
G-QRP #9544 NorCal #1989 CQC AKQRP QCWA FISTS #2781

Date: Tue, 20 Jun 2000 13:50:13 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: AA3BP@aol.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [73056] Re: HB: **uMountaineer Xtal**
Message-ID: <20000620205013.21331.qmail@web2003.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I can't point to a particular design, but a VFO (lower
freq such as typical to most of our rigs) could be
mixed up with a garden variety xtal oscillator. I
suspect this could be done for about the same change.
Several "universal" VFO designs have been published -
this could use a variable cap or a varactor/pot
tuning. The varactor VFO design in the Ten Tec rigs
covers 70 KHz and this would certainly cover the most
important CW spectrum on 10m.

Assuming one were using the PC board to build this rig, a "daughter board" with an ugly/manhattan VFO could be added. I think a DC receiver would work ok on 10m since there is much less QRM than 40, but given a hetrodyned VFO its tempting just a build a superhet. And of course a 10m rig is forthcoming from NORCAL ... so many options exist. Since I don't have a "normal" QRP rig for 10m I've been thinking things thru myself a little.

Curt WB8YYY

--- AA3BP@aol.com wrote:

> FYI...

>

> I contacted Hy-Q xtal folks re: price and
> availability of a 10 meter xtal for the uM per the
> QST article. Received a very prompt response
> stating that a third overtone xtal for 28.020 would
> cost \$12.75 plus \$7.50 for UPS shipping. Lead time
> is three weeks from receipt of order. (Shipping
> charges kinda gets one's attention -- must be a
> whole lot heavier than I anticipated!)

>

> I have no issues with ordering the frequency
> dependent parts from Kanga except that I agree with
> the article that 28.060 may be a tad high in the
> band for dx.

>

> Thought the info might be useful. Anyone know of
> alternative sources/options?

>

> 73,
> Jim, AA3BP
> Mechanicsburg, PA

>

>

>

>

Do You Yahoo!?

Send instant messages with Yahoo! Messenger.

<http://im.yahoo.com/>

Date: Tue, 20 Jun 2000 14:01:00 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: n4bp@bc.seflin.org, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [73057] Re: RS 12/13 updating keps
Message-ID: <20000620210100.23040.qmail@web2003.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I don't use these birds often, but have found updating
once a month to be more than adequate.

Curt WB8YYY

--- Bob Patten <n4bp@bc.seflin.org> wrote:
> On Tue, 20 Jun 2000, David Hinerman wrote:
> >
> > How long can orbit data on the RS birds "age"
> before the tracking errors
> > become unacceptable? Some years ago (well, 10
> maybe) I used to try to
> > impress the kids by listening for RS-10/11, but I
> always made it a point to
> > download the most recent orbital files I could
> find. I was usually within a
> > minute or two of the predicted crossing.
> >
> Can't answer that question (Gawd, QRP-L subscribers
> will have to set up a
> Philter for me!), but can tell you that ARRL posts
> updates about once a
> week. If you update now, the passes you calculate
> for Field Day should
> be correct within a few seconds. You really need
> that kind of accuracy
> since each pass will last a Maximum of about 15
> minutes with the less
> direct passes being quite brief. If you have any
> doubt about picking up
> the latest Keps, I can send them to you as a message
> attachment. My file
> is named NOVA.DAT, so you would simply rename it to
> what your tracking
> software expects to find.
>
> 73,
> , ' ' ' ,
> Bob Patten, N4BP (0 0)
> Plantation, FL

>

-----o00o-()-o00-----

>

> E-Mail: n4bp@bc.seflin.org

> Web Page:

> <http://www.qsl.net/n4bp>

> Brass Pounder BBS: (954)

> 472-7715

> SOC #1Whiners #6

>

Do You Yahoo!?

Send instant messages with Yahoo! Messenger.

<http://im.yahoo.com/>

Date: Tue, 20 Jun 2000 14:35:28 -0700 (PDT)

From: Jeff <fantbb@yahoo.com>

To: qrp qrp <qrp-l@lehigh.edu>

Subject: [73058] Non regulated solar charging during operation MANY THANKS FOR THE HELP!

Message-ID: <20000620213528.15857.qmail@web106.yahoomail.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Thank you all very much for your help! It really helped me and the others get a grip on solar charging!

73!

Jeff

=====

Jeff Jones

AB6MB

NorCal QRP Club #65, QRP-L #1780, ARCI 10071

Radical FIST Member 6798

Voicemail/Fax 1-888-Excite2 ext 925-439-2514

ICQ 62450117

Do You Yahoo!?

Send instant messages with Yahoo! Messenger.

<http://im.yahoo.com/>

End of QRP-L Digest 1858

